MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

GAF
1361 Alps Road
Wayne, NJ 07470

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: GAF Conventional Built-Up-Roof System for Steel Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises and renews NOA No. 11-1021.14 consists of pages 1 through 15.
The submitted documentation was reviewed by Juan E. Collao, R.A.

MIAMI-DADE COUNTY APPROVED

Juan E. Collao 11/06/13

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	BUR
Deck Type:	Steel
Material:	Fiberglass
Maximum Design Pressure:	-90 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
GAFGLAS® Ply 4	39.37" (1 meter) Wide	ASTM D 2178	Type IV asphalt impregnated glass felt with asphalt coating.
GAFGLAS® FlexPly™ 6	39.37" (1 meter) Wide	ASTM D 2178	Type VI asphalt impregnated glass felt with asphalt coating.
GAFGLAS® #75 Base Sheet	39.37" (1 meter) Wide	ASTM D 4601	Type II asphalt impregnated and coated glass mat base sheet.
GAFGLAS® #80 Ultima™ Base Sheet	39.37" (1 meter) Wide	ASTM D 4601	Type II asphalt impregnated and coated, fiberglass base sheet.
GAFGLAS® Stratavent® Eliminator™ Perforated Venting Base Sheet	39.37" (1 meter) Wide	ASTM D 4897	Fiberglass base sheet coated on both sides with asphalt. Surfaced on the bottom side with mineral granules embedded in asphaltic coating with factory perforations.
GAFGLAS® Mineral Surfaced Cap Sheet	39.37" (1 meter) Wide	ASTM D 3909	Asphalt coated, glass fiber mat cap sheet surfaced with mineral granules.
GAFGLAS® EnergyCap™ BUR Mineral Surface Cap Sheet	39.37" (1 meter) wide	ASTM D3909	Asphalt coated, glass fiber mat cap sheet surfaced with mineral granules with factory applied EnergyCote™
Ruberoid® 20	39.37" (1 meter) Wide	ASTM D 6163	SBS modified asphalt base sheet reinforce with a glass fiber mat.
Ruberoid® Dual Smooth	39.37" (1 meter) wide	ASTM D 6162	Fiberglass/polyester/composite mat that is coated with an SBS polymer-modified asphalt and is smooth-surfaced.
Ruberoid Mop 1.5	39.37" (1 meter) wide	ASTM D6164	Non-woven polyester mat coated with polymer-modified asphalt and smooth surfaced.
Ruberoid Mop Plus Smooth	39.37" (1 meter) wide	ASTM D6164	Non-woven polyester mat coated with polymer-modified asphalt and smooth surfaced.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
EnergyGuard™ Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RA Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RH Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RN Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RA Composite Polyiso Insulation	Polyisocyanurate foam insulation with high density fiberboard or Permalite perlite insulation.	GAF
EnergyGuard™ Perlite Roof Insulation	Perlite insulation board.	GAF
EnergyGuard™ Perlite Recover Board	Perlite recover board	GAF
DensDeck® Roof Board	Gypsum board	G-P Gypsum Corp.
Securock® Gypsum-Fiber Roof Board	Gypsum roof board	USG Corporation
Structodek® High Density Fiber Board	High density fiber board	Blue Ridge FiberBoard, Inc.

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Drill-Tec™ 12 Fastener	Insulation fastener for steel, wood & concrete decks.	various	GAF
2.	Drill-Tec™ 14 Fastener	Insulation fastener for steel, wood & concrete decks.	various	GAF
3.	Drill-Tec™ Base Sheet Fastener (1.2)	Base sheet fastening assembly.	1.2 in.	GAF
4.	Drill-Tec™ Base Sheet Fastener (1.7)	Base sheet fastening assembly.	1.7 in.	GAF
5.	Drill-Tec™ Base Sheet Fastener E (1.2)	Base sheet fastening assembly.	1.2 in.	GAF
6.	Drill-Tec™ Base Sheet Fastener E (1.7)	Base sheet fastening assembly.	1.7 in.	GAF
7.	Drill-Tec™ AccuTrac® Flat Plate	AZ-SS aluminized steel plate for use with Drill-Tec™ #12 Fastener, Drill-Tec™ #14 Fastener and Drill-Tec™ #15 Fastener.	3" square	GAF
8.	Drill-Tec™AccuTrac® Recessed Plate	Galvalume Steel plate for use with Drill-Tec™ fasteners.	3" square	GAF
9.	Drill-Tec™ 3” Steel Plates	Round galvalume stress plate used with Drill-Tec™ fasteners.	3" round	GAF
10.	Drill-Tec™ 3” Standard Steel Plates	Round galvalume plated steel stress plate with reinforced ribs for use with Drill-Tec™ fasteners.	3" round	GAF

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Description	Date
Factory Mutual Research Corp.	J.I. 2B8A4.AM	4470	07/02/97
	J.I. 3B9Q1.AM	4470	01/08/98
	J.I. 0D0A8.AM	4470	07/09/99
	J.I. 0Y9Q5.AM	4470	04/01/98
	3011140	4470	08/14/01
	3014547	4470	05/22/03
	3017250	4470	04/05/04
	3035140	4470	08/10/09
	3023458	4470	07/18/06
	3034312	4470	04/09/09
IRT-ARCON, Inc.	04-009	TAS 114-J	01/26/04
Trinity|ERD	G34140.04.11-2	ASTM D 6163	04/25/11
	G31360.03.10	ASTM D 6164	03/31/10
	G34140.04.11-4	ASTM D 4601	04/25/11
	G34140.04.11-5	ASTM D 4897	04/25/11
	G34140.04.11-5-R1	ASTM D 4897	10/18/13
	G6850.08.07-1	ASTM D 3909	08/13/07
	G33470.01.11	ASTM D 6164	11/16/11
	C8500SC.11.07	ASTM D 6862	11/30/07
	G30250.02.10-3-R1	ASTM D 3909	11/26/12
	G33470.01.11	ASTM D 6164	01/13/11
Underwriters Laboratories, Inc.	UL 10CA9624	R1306	09/01/10
	UL 10CA13697	R1306	07/08/10
PRI Construction Materials Technologies LLC	GAF-314-02-01	ASTM D 2178	8/23/11
	GAF-315-02-01	ASTM D 2178	8/23/11
Momentum Technologies, Inc.	AX04C9A	D6162	06/05/09

Membrane Type: BUR

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga. steel

System Type B(1): Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt.

All General and System limitations apply.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation		
Minimum 1.3" thick	**2, 3, 4, 5, 6**	**1:4 ft²**
EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation		
Minimum 1.4" thick	**2, 3, 4, 5, 6**	**1:3 ft²**
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation		
Minimum 1.4" thick	**2, 3, 4, 5, 6**	**1:4 ft²**
EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation		
Minimum 1.5" thick	**2, 3, 4, 5, 6**	**1:3 ft²**
Structodek® High Density Fiber Board		
Minimum ¾" thick	**2, 3, 4, 5, 6**	**1:4 ft²**
EnergyGuard™ Perlite Roof Insulation		
Minimum ¾' thick	**2, 3, 4, 5, 6**	**1:2 ft²**

Note: Base layers of insulation shall be mechanically attached using the fastener density listed. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment. GAF requires either a ply of GAFGLAS® Stratavent® Eliminator™ Perforated Venting Base Sheet, loose laid dry or a layer of EnergyGuard™ Perlite Roof Insulation or wood fiber overlay board on all isocyanurate applications.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
Any of the insulations listed above for Base Insulation Layer		
EnergyGuard™ Perlite Recover Board		
Minimum ½" thick	**N/A**	**N/A**

Note: Optional top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft^2. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet:	(Optional) Install one ply of GAFGLAS® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, GAFGLAS® Ply 4, GAFGLAS® FlexPly™ 6, Ruberoid® 20, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth or Ruberoid® Dual Smooth directly to the insulated substrate. Adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Ply Sheet:	Minimum any two plies of GAFGLAS® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Cap Sheet:	One ply of GAFGLAS® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Maximum Design Pressure:	-45 psf (See General Limitation #9.)

Membrane Type: BUR

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga. steel ASTM A1008 SS or ASTM A653 Grade 80 steel decking attached to steel supports spaced 6 ft. o.c. with Buildex Traxx 5 fasteners spaced 6" o.c. (at the bottom flute), and with side laps attached with Buildex Traxx/1 fasteners spaced at maximum of 24" o.c.

System Type B(2): Base layer of insulation mechanically fastened, top layer adhered with approved asphalt.

All General and System limitations apply.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation Minimum 1.5" thick	**2**	**1:1.3 ft²**

Note: Base layers of insulation shall be mechanically attached using the fastener density listed. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Structodek® High Density Fiber Board Minimum ½" thick	**N/A**	**N/A**

Note: Top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet: (Optional) One ply of GAFGLAS® Ply 4, GAFGLAS® FlexPly™ 6, GAFGLAS® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth or Ruberoid® Dual Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: Minimum any two plies of GAFGLAS® Ply 4, GAFGLAS® FlexPly™ 6 or GAFGLAS® #80 Ultima™ Base Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Cap Sheet: One ply of GAFGLAS® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Maximum Design Pressure: -90 psf (See General Limitation #7)

APPROVED ASSEMBLIES

Membrane Type: BUR

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga. steel

System Type C(1): One or more layers of insulation is mechanically attached, perforated base sheet loose laid over the insulation or non perforated base sheet mopped to insulation (See General Limitation #4).

All General and System limitations apply

Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation Minimum 2" thick	**2**	**1:1.5 ft²**

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of GAFGLAS® Stratavent® Eliminator™ Perforated Vented Base Sheet with 2" side laps, loose laid dry.

Ply Sheet: One or more plies of GAFGLAS® Ply 4 or GAFGLAS® FlexPly™ 6 in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq to the insulation.

Cap Sheet: One ply of GAFGLAS® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Maximum Design Pressure: -60 psf (See General Limitation #9.)

Membrane Type: BUR

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga. steel

System Type C(2): Optional base layer of insulation loose laid; both layers of insulation simultaneously fastened.

All General and System limitations apply.

Base Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft^2
EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation Minimum 1.3" thick	N/A	N/A
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation Minimum 1.4" thick	N/A	N/A
EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ Composite RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation Minimum 1.5" thick	N/A	N/A
EnergyGuard™ Perlite Roof Insulation Minimum ¾' thick	N/A	N/A

Note: Both layers shall be simultaneously attached; see top layer below for fasteners and density.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation Minimum 1.3" thick	2, 3, 4, 5, 6	1:4 ft²
EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation Minimum 1.4" thick	2, 3, 4, 5, 6	1:3 ft²
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation Minimum 1.4" thick	2, 3, 4, 5, 6	1:4 ft²
EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation Minimum 1.5" thick	2, 3, 4, 5, 6	1:4 ft²
EnergyGuard™ Perlite Roof Insulation, EnergyGuard™ RH Polyiso Insulation Minimum ¾" thick	2, 3, 4, 5, 6	1:2 ft²
Structodek® High Density Fiver Board Minimum ¾" thick	2, 3, 4, 5, 6	1:4 ft²

Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment. GAF requires either a ply of GAFGLAS® Stratavent® Eliminator™ Perforated Venting Base Sheet loose laid dry or a layer of EnergyGuard™ Perlite Recover Board or wood fiber overlay board on all isocyanurate applications.

Base Sheet:	(Optional) Install one ply of GAFGLAS® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, GAFGLAS® Ply 4, GAFGLAS® FlexPly™ 6 GAFGLAS® Stratavent® Eliminator™ Perforated Venting Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth or Ruberoid® Dual Smooth directly over the top layer of insulation. Adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Ply Sheet:	Minimum any two plies of GAFGLAS® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Cap Sheet:	One ply of GAFGLAS® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Maximum Design Pressure:	-45 psf (See General Limitation #9.)

Membrane Type: BUR

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 22 gauge steel non-vented B-deck was attached to 5' o.c., bar joist with puddle welds and washers at 6"o.c., and tech screws at 12"o.c.

System Type C(3): All insulation simultaneously fastened.

All General and System limitations apply.

Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation		
Minimum 1.5" thick	**1 & 7, 8, 9, 10**	**1:1.45 ft²**

Note: Top layer shall have preliminary attachment, prior to the installation of the base sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base sheet below for fasteners and density.

Base Sheet: GAFGLAS® Stratavent® Eliminator™ Perforated Venting Base Sheet with 2 in. (50mm) side laps loose laid dry.

Ply Sheet: One or more plies of GAFGLAS® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20- 40 lbs./sq.

Cap Sheet: One ply of GAFGLAS® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Maximum Design Pressure: -60 psf (See General Limitation #7)

Membrane Type: BUR

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga. steel Type B Grade 33 steel decking attached to steel supports spaced 6 ft. o.c. with Buildex Traxx/4 or 5 fasteners spaced 6" o.c. (at the bottom flute), and with side laps attached with Buildex Traxx/1 fasteners spaced at max. of 24" o.c.

System Type C(4): Base sheet loose laid; both layers of insulation simultaneously fastened.

All General and System limitations apply.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation Minimum 1.5" thick	**N/A**	**N/A**

Note: Both layers shall be simultaneously attached; see top layer below for fasteners and density.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck® Roof Board Minimum ¼" thick	**1 or 10**	**1:1 ft²**

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density.

Base Sheet: One ply of GAFGLAS® Stratavent® Eliminator™ Perforated Venting Base Sheet with 2" side laps loose laid dry.

Ply Sheet: One or more plies of GAFGLAS® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Cap Sheet: One ply of GAFGLAS® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Maximum Design Pressure: -82.5 psf (See General Limitation #7)

Membrane Type: BUR

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga. steel decking secured to minimum ¼ in. thick steel structure supports spaced 6” o.c. of the supports. Deck side laps are secured 24" o.c. with ITW Buildex Traxx/1 fasteners.

System Type C(5): Top layer of insulation is mechanically fastened and ply sheet is adhered.

All General and System limitations apply.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, Minimum 2” thick	**N/A**	**N/A**

Note: Base layer of insulation is loose laid.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Securock® Gypsum-Fiber Roof Board Minimum 1/2” thick	**1, 2 or 10**	**1:78 ft²**

Base Sheet: One ply of GAFGLAS® Ply 4 or GAFGLAS® FlexPly™ 6 adhered with asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. and broomed in.

Ply Sheet: One or more plies of GAFGLAS® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Cap Sheet: One ply of GAFGLAS® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Maximum Design Pressure: -60 psf (See General Limitation #7)

STEEL DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.
2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.
   Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9N-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE